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CENTRAL INTELLIGENCE AGENCY

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				50X1-HL
COUNTRY	USSR (Armenian SSR)		REPORT	
SUBJECT	Construction Methods in Housing in the Armenian		DATE DISTR.	31 Cataber 1956
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			REQUIREMENT NO.	RD
DATE OF			REFERENCES	50X1-H
PLACE & DATE ACQ.				50X1-H
	SOURCE EVALUATIONS ARE			
1.	cons	truction of p	rivate houses in	n the Armenian SSR. All
	houses were one story high	h, sometimes	with a basement,	, sometimes without a
	basement. There were two			
	the height from ground to			
	or three rooms, with entry	y way and kit	chen. There wer	re no bathrooms.
	These houses had water and There was an outhouse out	u electricity hack The a	, but no gas and rest majority of	1 no sewernge lines.
	heated with coal stoves, h			
2.	The price of construction	was estimate	d by the local p	proyektnoye byuro,
	(project bureau) and range A reasonable average would	ed between 30	O and 400 rubles	per square meter.
	private home would take be			
			•	-
3.	The foundations of these h	nouses were s	tone and lime mo	ortar, and the walls
	were stone, local black or When the walls were all up	r rose duif.	The walls were	50 to 60 cm thick.
	walls but open at the top,	, ten x 20 cm	or ten x 18 cm	wooden became ware
	laid across the top of the	walls, from	one side to the	other, that is.
	as a level horizontal sort	of covering	, parallel to en	ch other and at
	intervals of from 65 to 70	cm. These	peams were of ye	llow pine (cham)
	or white pine (kyoknar); c expensive. The next step	of these the	yellow pineswas	better but more
	right next to the other on	was to cover	tnese beams wit Deams and scross	n pushta, laid one
	on the same horizontal	plane as the	e beams, and dir	ectly on top of
	them, but at right angles	to their dire	ection. These p	ushta were basically
	the outer extremities of a	log after it	has been cut u	p into boards ut
	the sawmill. The <u>pushta</u> w	ould thus be	on one side a s	mooth sawed surface
•	and on the other side the tree. In other words, the	original rour	idea ana barkea The smaller mice	outer surface of the
	passing a saw cut parallel	to a log axi	s about 4/5 of	e of the two, produced
•	the center. The next step	was to cover	the pushta wit	h 12 to 15 cm of a
	clay paste. On top of thi	s was laid ar	other layer, or	ordinary clay, ten
•	to 15 cm thick. All this	was for insul	ation. Then, ov	er this was erected
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(Note: Washington distribution indicated by "X"; Field distribution by "==-.)

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a peaked roof made of wood. This roof was covered with tile or amboliance, a composition rade of comment and acceptes, in the color of corregions from

- 4. Inside walls were plastered and painted with calcimine, either white or colored. Floors were always wood. The kitchen and entryway were cement terrazzo. Windows were always double, for winter protection. Ceilings were wood, covering the beams from underneath. In between the beams, horizontally, and in between the ceiling and the pushta vertically, an air space was left for insulation. See Sketch No. 1 for layout.
- The only place in the construction of these houses where precast concrete was used was at the top of and behind the windows, that is, the linkels. The use of precast concrete had definitely decreased in the last few years, in all types of housing. Cement was extremely deficient and virtually unobtainable. No stores had it to sell, and the builder who erected these houses had to steal all the cement he ever used. Factories could get cement to build an annex or make repairs, where private housing construction simply could not get any. This situation existed from 1947 or 1948 until the time source left.
- The amount of private housing construction was on the increase. In Leninakan, for example, the figures for private houses constructed were as follows:

1949	250	private	houses	
1950	290	private	houses	
1952	350	private	houses	
1954	480	private	houses	
1955	600	private	houses	started

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In the years 1946 - 1947 abnormally heavy private housing construction in Armenia. During these years, some 100,000 repatriates arrived in Armenia, and many of them wanted to build private houses. By 1949, however, the situation had returned to normal, and the above figures show a clear picture of the increase in private housing construction.

In 1955, the chief architect of Leninakan was in a quandary over the fact that there was almost no land left in the <u>poselki</u> for people to build private houses; there had been so much construction that the land was all used up. The architect said he was considering enlarging the city of Leninakan toward Maisyan and Toparlu to get more land.

Building Materials

- All cement came from Davarlu, and source heard there were many prisoners, criminal rather than political, working there. The cement was of a very good quality. It never came in bags or sacks of any sort; it was just dumped as loose powder in trucks or wagons. The majority of cement from this factory was shipped to other parts of the USSR and was not available for use in the Armenian SSR. Cement cost 0.50 rubles per kilo. This was the official price, but, because of its scarcity, the actual price was about one and a half times that.
- All lumber came from other parts of the USSR, since there is no lumber in the Armenian SSR. Lumber officially cost 250 rubles per cubic meter, but since it was so scarce, the actual price was about one and a half times this.

The stone was quarried locally in Leminakan. There were two large stone quarries, the Khachkar Quarry and the Vartbagh Quarry, between Leminakan and Arpa Chay. A piece of stone about 40 x 40 x 60 cm cost five rubles in 1947, and in 1955, the same piece cost 1.10 rubles. This was the quarry size, not the cut/cleaned size.

Two kinds of sand were used, quarry sand and Arpa Chay sand. The quarry sand came from Karakilise, a quarry on the road to Maralik, about 15 to 17 miles from Leninakan. Both gravel and sand were obtained from the Arpa Chay. Sand cost about 50 rubles per cubic meter in 1955, and about 180 rubles per cubic meter from 1946 until 1948. Gravel cost the same as sand.

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- 12. Lime came from a small factory in Maisyan and a large lime factory in Dzhadzhur. (N 40-51, E 43-57). Criminal prisoners were employed in the latter. Source is not sure but thinks lime cost 300 rubles per ton in 1947 and 1948.
- 13. Very little brick was used in construction in Leninakan. There was a brick and tile factory near Gananchatsman Trest (sic) in Leninakan. There was also a large new brick and tile factory, started in 1953 and not yet completed in 1955, near Evako Baza in Leninakan.
- 14. All the glass was very poor quality, and source does not know where it came from.
- 15. Nails and screws came from other parts of the USSR, source suggests perhaps Rostov (N 47-15, E 39-53) or Kharkov (N 40-57, E 48-45).
- 16. Azbofaner came from Yerevan (N 40-11, E 44-30) and Tbilisi (N 41-42, E 44-45).
- 17. Items such as nails and screws, . became more plentiful after 1953. Also, oil paint supplies, both brushes and paints, were available after 1953; before that they could not be found anywhere. Cement and lumber were consistently very deficient from 1947 to 1955, although factories could get these items, as they could brick and tile, when private housing could not.

Comments:

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- Maisyan (N 40-51, E 43-51) is also known as Ortabilisa and Orgakilisa. Toparlu is probably Topar (N 40-51, E 43-52).
- 2. Davarlu is probably Davalu, (N 39-45, E 44-45). The village has apparently been renamed Ararat, although coordinates for Ararat have been given as N 39-50, E 44-42. The Ordzhonikidze Cement Plant is located in Ararat.
- 3. The Arpa(Chay) Aver, also known as Reka Badzhiogly Chay, flows past the western edge of Leninakan.
- 4. probably referring to the village of Malaya Karakilisa N 40-43, E 43-50. A number of small villages in this area, however, are named Karakilisa, and a Mt. Karakilisa is just southeast of Malaya Karakilisa. Coordinates for Maralik have been given as N 40-35, E 43-55 and N 40-33, E 43-52.

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